

ELECTRICALLY CONDUCTIVE POLYESTER MONOFILAMENT AND ITS WOVEN FABRIC FOR INDUSTRIAL PURPOSE

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Abstract

PURPOSE: To obtain an electrically conductive polyester monofilament which has performance suitable for woven fabrics for industrial purposes, for example, a sieving filter for powdery materials such as wheat flour, drier belts on the production of sanitary products such as paper diapers or sanitary napkins or drier canvas for a paper-making machine.

CONSTITUTION: This electrically conductive polyester monofilament comprises 4-15wt.% of a high-conductivity carbon black and 96-85wt.% of a polyester composition containing the followings (A) and (B):(A)30-90wt.% of a polyethylene terephthalate and (B) 70-10wt.% of a polyester copolymer containing 90-98wt.% of butylene terephthalate units and/or 10-2wt.% of dibutyl aliphatic dicarboxylate units.

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